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CLAIM AMENDMENTS

This listing of claims will replace all prior versions and listings of claims in the application.

Listing of the Claims:

1-25. (Canceled)

- 26. (Currently Amended) A method of controlling traffic on a data network, said
- 2 traffic comprising payload data and associated signaling data, the method
- 3 comprising:
- 4 reading a portion of said payload data for a first traffic of a first
- 5 communications session between a first entity and a second entity communicating
- 6 over said data network:
- 7 determining-using a signature in the portion of the payload data to determine
- 8 whether said portion of the payload data identifies a traffic content type peer-to-
- 9 peer (P2P) traffic;
- storing signaling data associated with said portion of the payload data;
- 11 reading signaling data for a second traffic of a further or resumed second
- 12 communications session on said data network; and
- 3 comparing said read signaling data with said stored signaling data to identify
- 14 said second traffic as a further the P2P traffic of said controlled traffic content type:
- 15 and

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- 16 controlling said further or resumed second communications session
- 17 responsive to said identification of the P2P traffic, by limiting propagation of the
- 18 P2P traffic without limiting propagation of non-P2P traffic.
- 1 27. (Currently Amended) A-method as claimed in The method of claim 26,
- 2 wherein said controlling further comprises:
- 3 controlling a route of said further or resumed second communications session
- 4 traffic.
 - 28. (Currently Amended) A method as claimed in The method of claim 26, further
- 2 comprising:
- 3 wherein said reading of signaling data for the second traffic includes
- 4 reading at least a portion of said signaling data for said second traffic;
- 5 wherein said method includes
- 6 determining from said signaling data an address of an originator of said
- 7 further-or-resumed-second communications session, said originator comprising one
- 8 of said first and second entities; [[,]] and wherein said method comprises
- 9 sending a signal to said originator using said determined address.
- 29. (Currently Amended) A method as claimed in The method of claim 26.
- 2 wherein said controlling further comprises:

- 3 signaling with said signaling data.
- 1 30. (Currently Amended) A method as claimed in The method of claim 26,
- 2 wherein said controlling further comprises:
- 3 sending a message in said payload data.
 - 31. (Currently Amended) A-method as claimed in The method of claim 30,
- 2 wherein said message includes a request to retry establishing said further or
- 3 resumed-second communications session.
- 1 32. (Currently Amended) A method as claimed in The method of claim 26.
- 2 wherein said storing is responsive to said determining.
- 1 33. (Currently Amended) A method as claimed in The method of claim 26,
- 2 wherein said reading of the portion of said payload data for the first traffic further
- 3 comprises:
- 4 reading first payload data for a communication from said first to said second
- 5 entity and second payload data for a communication from said second to said first
- 6 entity, and wherein said determining whether said portion of payload data
- 7 identifies a controlled traffic content type the P2P traffic; and

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- 8 determines whether both said first and said second payload data are of said
- 9 controlled traffic content type contain the P2P traffic.
- 1 34. (Currently Amended) A-method as claimed in The method of claim 33, further
- 2 comprising
- 3 buffering said first and second payload data for said determining.
 - 35. (Canceled).
 - 36. (Currently Amended) A method as claimed in The method of claim 26, further
- 2 comprising:
- 3 signaling, responsive to said determining, to at least one of said first and
- 4 second entities to interrupt said communications session.
- 37. (Currently Amended) A method as claimed in The method of claim 26,
- 2 wherein said second traffic comprises an attempt to begin a further communications
- 3 session of said controlled traffic content type-the P2P traffic or to resume said
- 4 communications session, and wherein said controlling further comprises:
- 5 controlling traffic of said further or resumed second communications session.

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- 38. (Currently Amended) A method as claimed in The method of claim 26,
- 2 wherein said network comprises a packet data network and wherein said signaling
- 3 data includes a destination identifier.
- 1 39. (Currently Amended) A-method as claimed-in-The method of claim 38,
- 2 wherein said network comprises an internet protocol (IP) network, in particular a
- 3 transmission control protocol (TCP) IP network, and wherein said signaling data
- 4 includes a destination address and port number.
- 40. (Currently Amended) A method as claimed in The method of claim 26.
- 2 wherein said traffic content type to be controlled includes peer to peer P2P protocol
- 3 network traffic employing a variable TCP port number for peer-to-peer-P2P
- 4 connections.
- 1 41. (Currently Amended) A method as claimed in The method of claim 40,
- 2 wherein said controlling further comprises:
- 3 routing said peer-to-peer-P2P traffic to a peer-to-peer-P2P network gateway.
- 42. (Currently Amended) A-method as claimed in The method of claim 40,
- 2 wherein said controlling further comprises:
- 3 routing said peer-to-peer-P2P traffic to a peer-to-peer-P2P network cache.

- 1 45. (Currently Amended) A router for controlling traffic on a data network, said traffic comprising payload data and associated signaling data, the router 2 comprising: 3
- a network interface for interfacing that interfaces with said data network; 4
- a packet switch coupled to the network interface that separates the traffic 5
- into peer-to-peer (P2P) traffic and non P2P traffic, wherein propagation of the P2P 6
- traffic is limited without limiting propagation of the non P2P traffic: 7
- 8 a data memory operable to store that stores data to be processed:
- 9 an instruction memory storing that stores computer executable code; and
- a processor coupled to said network interface, to said data memory, and to 10
- said instruction memory and operable to process that processes said data in accordance with the computer-executable code stored in said instruction memory, 12
- 13 whereby said processor is configured to:

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- read a portion of said payload data for a first traffic of a communications 14
- 15 session between a first entity and a second entity communicating over said network;
- using a signature in the portion of the payload data to determine whether 16
- said portion of payload data identifies a the P2P traffic content type to be controlled: 17
- store signaling data associated with said portion of payload data; 18
- read signaling data for a second traffic on said network; and to 19

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compare said read signaling data with said stored signaling data to identify 20 21 an attempt to begin a further second communications session of said controlled P2P

- traffic type or to resume said communications session; and 22
- control said further or resumed second communications session responsive to 23 said identification 24
- (Currently Amended) A router-as-claimed in The router of claim 45, wherein 1 46.
- network comprises a packet data network, wherein said signaling data comprises a 2
- 3 destination identifier to identify a destination of a packet of data comprising said
- 4 first traffic, and wherein said storing stores a destination identifier for said first
- traffic of said controlled traffic content type-that is the P2P traffic in said data 5
- 6 memory responsive to identifying said controlled P2P traffic content type.
 - 47. (Currently Amended) A router as claimed in The router of claim 46, wherein said processor is further configured to:
- 2
- store portions of said payload data of said communications session sent from 3
- 4 both said first and said second entity; and
- determine when communications from both said first and second entities are 5
- of a said controlled the P2P traffic content type. 6
 - 48-52.(Canceled).